## Author Index of Volume 160

Babuška, I. see Stone, T.J.	245-271
Baker, A.J. see Roy, S.	359-382
Barakos, G. and Drikakis, D. Assessment of various low-Reynolds number turbulence	
models in shock-boundary layer interaction	155-174
Brekelmans, W.A.M. see Geers, M.G.D.	133-153
Bujurke, N.M., Madalli, V.S. and Mulimani, B.G. Long series analysis of laminar flow	
through parallel and uniformly porous walls of different permeability	39- 56
Chleboun, J. and Xanthis, L.S. The method of arbitrary lines in optimal shape design:	
problems with an elliptic state equation	1- 22
Dłużewski, P. and Rodzik, P. Elastic eigenstates in finite element modelling of large	
anisotropic elasticity	325-335
de Borst, R. see Geers, M.G.D.	133-153
Drikakis, D. see Barakos, G.	155-174
Duh, J.C. see Yu, ST.	71- 88
Ferrari, P. and Savoia, M. Fuzzy number theory to obtain conservative results with respect	
to probability	205-222
Geers, M.G.D., de Borst, R., Brekelmans, W.A.M. and Peerlings, R.H.J. Strain-based	
transient-gradient damage model for failure analyses	133-153
Giannakoglou, K.C. see Koubogiannis, D.G.	89-100
Gruttmann, F., Sauer, R. and Wagner, W. A geometrical nonlinear eccentric 3D-beam	
element with arbitrary cross-sections	383-400
Hachemi, A. and Weichert, D. Numerical shakedown analysis of damaged structures	57- 70
Jiang, BN. see Yu, ST.	71- 88
Kida, T. and Nakajima, T. Core spreading vortex methods in two-dimensional viscous	
flows	273-298
Koubogiannis, D.G., Poussoulidis, L.C., Rovas, D.V. and Giannakoglou, K.C. Solution of	
flow problems using unstructured grids on distributed memory platforms	89-100
Langtangen, H.P. and Pedersen, G. Computational models for weakly dispersive nonlinear	
water waves	337-358
Lee, C.K. see Lo, S.H.	175-191
Lo, S.H. and Lee, C.K. On constructing accurate recovered stress fields for the finite	
element solution of Reissner-Mindlin plate bending problems	175-191

Madalli, V.S. see Bujurke, N.M.	39- 56
Mulimani, B.G. see Bujurke, N.M.	39- 56
Mannan, D.G. See Dajarke, M.M.	
Nakajima, T. see Kida, T.	273-298
Nedjar, B. and Reynier, M. Error on the constitutive relation in the nonlinear formulation	
of elastic beams: the plane case	299-314
Nilsson, F. see Trädegård, A.	115-131
Noor, A.K. see Wasfy, T.M.	223-243
Notay, Y. see Saint-Georges, P.	101-104
The state of the s	
Östlund, S. see Trädegård, A.	115-131
Ovtchinnikov, E.E. and Xanthis, L.S. The discrete Korn's type inequality in subspaces and	
iterative methods for thin elastic structures	23- 37
Pedersen, G. see Langtangen, H.P.	337-358
Peerlings, R.H.J. see Geers, M.G.D.	133-153
Poussoulidis, L.C. see Koubogiannis, D.G.	89-100
Reynier, M. see Nedjar, B.	299-314
Rodzik, P. see Dłużewski, P.	325-335
Rovas, D.V. see Koubogiannis, D.G.	89-100
Roy, S. and Baker, A.J. A monotone time relaxation matrix procedure for improved	
convergence to steady-state for CFD algorithms	359-382
Saint-Georges, P., Notay, Y. and Warzée, G. Efficient iterative solution of constrained finite	
element analyses	101-104
Sauer, R. see Gruttmann, F.	383-400
Savoia, M. see Ferrari, P.	205-222
Stone, T.J. and Babuška, I. A numerical method with a posteriori error estimation for	
determining the path taken by a propagating crack	245-271
Trädegård, A., Nilsson, F. and Östlund, S. FEM-remeshing technique applied to crack	
growth problems	115-131
Vignjevic, R. Erratum to "A hybrid approach to the transient collapse analysis of thin	
walled frameworks II". [Comp. Methods Appl. Mech. Engrg. 148 (1997) 423-437]	203-203
Wagner, W. see Gruttmann, F.	383-400
Warzée, G. see Saint-Georges, P.	101-104
Wasfy, T.M. and Noor, A.K. Finite element analysis of flexible multibody systems with	
fuzzy parameters	223-243
Weichert, D. see Hachemi, A.	57- 70
Wu, J. see Yu, ST.	71- 88
Xanthis, L.S. see Chleboun, J.	1- 22
Xanthis, L.S. see Ovtchinnikov, E.E.	23- 37
Xing, Y.F. and Zhu, D.C. Analytical solutions of impact problems of rod structures with	
springs	315-323
Yavin, Y. Navigation and control of the motion of a riderless bicycle	193-202
Yu, ST., Jiang, BN., Wu, J. and Duh, J.C. Three-dimensional simulations of Marangoni-	
Benard convection in small containers by the least-squares finite element method	71- 88
7hu DC Ying VE	315_323

## Subject Index of Volume 160

Control theory	
Navigation and control of the motion of a riderless bicycle, Y. Yavin	193-202
Coupled problems	
Three-dimensional simulations of Marangoni-Benard convection in small containers by the least-squares finite element method, ST. Yu, BN. Jiang, J. Wu and J.C. Duh	71- 88
Dynamics	
Navigation and control of the motion of a riderless bicycle, Y. Yavin  Analytical solutions of impact problems of rod structures with springs, Xing YuFeng and	193-202
Zhu DeChao	315-323
Elasticity	
The method of arbitrary lines in optimal shape design: problems with an elliptic state equation, J. Chleboun and L.S. Xanthis  The discrete Vern's type inequality in subspaces and iterative methods for this election.	1- 22
The discrete Korn's type inequality in subspaces and iterative methods for thin elastic structures, E.E. Ovtchinnikov and L.S. Xanthis  Efficient iterative solution of constrained finite element analyses, P. Saint-Georges, Y. Notay	23- 37
and G. Warzée  On constructing accurate recovered stress fields for the finite element solution of Reissner-	101-114
Mindlin plate bending problems, S.H. Lo and C.K. Lee  A numerical method with a posteriori error estimation for determining the path taken by a	175–192
propagating crack, T.J. Stone and I. Babuška  Elastic eigenstates in finite element modelling of large anisotropic elasticity, P. Dłużewski	245-271
and P. Rodzik	325-335
A geometrical nonlinear eccentric 3D-beam element with arbitrary cross-sections, F. Gruttmann, R. Sauer and W. Wagner	383-400
Electromagnetic fields	
A monotone time relaxation matrix procedure for improved convergence to steady-state for CFD algorithms, S. Roy and A.J. Baker	359-382
Electronics	
Solution of flow problems using unstructured grids on distributed memory platforms, D.G. Koubogiannis, L.C. Poussoulidis, D.V. Rovas and K.C. Giannakoglou	89-100
Finite difference methods	
Strain-based transient-gradient damage model for failure analyses, M.G.D. Geers, R. de Borst, W.A.M. Brekelmans and R.H.J. Peerlings	133-154

Finite element and matrix methods	
The discrete Korn's type inequality in subspaces and iterative methods for thin elastic	
structures, E.E. Ovtchinnikov and L.S. Xanthis	23- 37
Numerical shakedown analysis of damaged structures, A. Hachemi and D. Weichert	57- 70
FEM-remeshing technique applied to crack growth problems, A. Trädegård, F. Nilsson and	115 12
S. Östlund	115-131
On constructing accurate recovered stress fields for the finite element solution of Reissner-	175 100
Mindlin plate bending problems, S.H. Lo and C.K. Lee	175–192
Finite element analysis of flexible multibody systems with fuzzy parameters, T.M. Wasfy and A.K. Noor	223-243
A numerical method with a posteriori error estimation for determining the path taken by a	223-243
propagating crack, T.J. Stone and I. Babuška	245-271
Error on the constitutive relation in the nonlinear formulation of elastic beams: the plane	243-271
case, B. Nedjar and M. Reynier	299-314
Elastic eigenstates in finite element modelling of large anisotropic elasticity, P. Dłużewski	2// 51
and P. Rodzik	325-335
Computational models for weakly dispersive nonlinear water waves, H.P. Langtangen and	
G. Pedersen	337-358
A geometrical nonlinear eccentric 3D-beam element with arbitrary cross-sections,	
F. Gruttmann, R. Sauer and W. Wagner	383-400
Fluid mechanics	
Long series analysis of laminar flow through parallel and uniformly porous walls of	
different permeability, N.M. Bujurke, V.S. Madalli and B.G. Mulimani	39- 56
Three-dimensional simulations of Marangoni-Benard convection in small containers by the	
least-squares finite element method, ST. Yu, BN. Jiang, J. Wu and J.C. Duh	71- 88
Assessment of various low-Reynolds number turbulence models in shock-boundary layer	
interaction, G. Barakos and D. Drikakis	155-174
Core spreading vortex methods in two-dimensional viscous flows, T. Kida and T. Nakajima	273-298
Computational models for weakly dispersive nonlinear water waves, H.P. Langtangen and	
G. Pedersen	337–358
Fracture mechanics	
Numerical shakedown analysis of damaged structures, A. Hachemi and D. Weichert	57- 70
FEM-remeshing technique applied to crack growth problems, A. Trädegård, F. Nilsson and	
S. Östlund	115-131
Strain-based transient-gradient damage model for failure analyses, M.G.D. Geers,	
R. de Borst, W.A.M. Brekelmans and R.H.J. Peerlings	133-154
A numerical method with a posteriori error estimation for determining the path taken by a	
propagating crack, T.J. Stone and I. Babuška	245-271
General Rayleigh-Ritz and Galerkin techniques	
The discrete Korn's type inequality in subspaces and iterative methods for thin elastic	
structures, E.E. Ovtchinnikov and L.S. Xanthis	23- 37
Limit solutions	
Numerical shakedown analysis of damaged structures, A. Hachemi and D. Weichert	57- 70
Miscellaneous topics	
Three-dimensional simulations of Marangoni-Benard convection in small containers by the	
least-squares finite element method ST. Yu. BN. Jiang, J. Wu, and J.C. Duh	71_ 88

Nonlinear dynamics of systems	
Navigation and control of the motion of a riderless bicycle, Y. Yavin	193-202
Finite element analysis of flexible multibody systems with fuzzy paramet	ers, T.M. Wasfy
and A.K. Noor	223-243
Nonlinear mechanics	
Long series analysis of laminar flow through parallel and uniformly poro	
different permeability, N.M. Bujurke, V.S. Madalli and B.G. Mulimani	39- 56
FEM-remeshing technique applied to crack growth problems, A. Trädegår	
S. Östlund	115-131
Navigation and control of the motion of a riderless bicycle, Y. Yavin	193-202
A numerical method with a posteriori error estimation for determining the propagating crack, T.J. Stone and I. Babuška	245–271
Error on the constitutive relation in the nonlinear formulation of elastic b	
case, B. Nedjar and M. Reynier	299–314
Elastic eigenstates in finite element modelling of large anisotropic elastic	
and P. Rodzik	325–335
Computational models for weakly dispersive nonlinear water waves, H.P.	
G. Pedersen	337–358
A geometrical nonlinear eccentric 3D-beam element with arbitrary cross-s	
F. Gruttmann, R. Sauer and W. Wagner	383-400
1. Gratimann, R. Sader and W. Wagner	303 100
Numerical solution procedures	
The method of arbitrary lines in optimal shape design: problems with an	ellintic state
equation, J. Chleboun and L.S. Xanthis	1- 22
The discrete Korn's type inequality in subspaces and iterative methods for	
structures, E.E. Ovtchinnikov and L.S. Xanthis	23- 37
Solution of flow problems using unstructured grids on distributed memory	
D.G. Koubogiannis, L.C. Poussoulidis, D.V. Rovas and K.C. Giannakog	
Strain-based transient-gradient damage model for failure analyses, M.G.D.	
R. de Borst, W.A.M. Brekelmans and R.H.J. Peerlings	133–154
On constructing accurate recovered stress fields for the finite element solu	
Mindlin plate bending problems, S.H. Lo and C.K. Lee	175–192
Fuzzy number theory to obtain conservative results with respect to probab	
and M. Savoia	205-222
A numerical method with a posteriori error estimation for determining the	
propagating crack, T.J. Stone and I. Babuška	245–271
Core spreading vortex methods in two-dimensional viscous flows, T. Kida	
Elastic eigenstates in finite element modelling of large anisotropic elastici	2
and P. Rodzik	325-335
Computational models for weakly dispersive nonlinear water waves, H.P.	
G. Pedersen	337-358
A monotone time relaxation matrix procedure for improved convergence	to steady-state for
CFD algorithms, S. Roy and A.J. Baker	359-382
Optimization	
The method of arbitrary lines in optimal shape design: problems with an	elliptic state
equation, J. Chleboun and L.S. Xanthis	1- 22
Optimization and design of structures	
The method of arbitrary lines in optimal shape design: problems with an	elliptic state
equation, J. Chleboun and L.S. Xanthis	1- 22

Plasticity	
Numerical shakedown analysis of damaged structures, A. Hachemi and D. Weichert Efficient iterative solution of constrained finite element analyses, P. Saint-Georges, Y. Notay	57- 70
and G. Warzée	101-114
Shells and plates	
The discrete Korn's type inequality in subspaces and iterative methods for thin elastic	
structures, E.E. Ovtchinnikov and L.S. Xanthis	23- 37
Numerical shakedown analysis of damaged structures, A. Hachemi and D. Weichert	57- 70
On constructing accurate recovered stress fields for the finite element solution of Reissner-	
Mindlin plate bending problems, S.H. Lo and C.K. Lee	175-192
Finite element analysis of flexible multibody systems with fuzzy parameters, T.M. Wasfy	222 242
and A.K. Noor	223–243
A monotone time relaxation matrix procedure for improved convergence to steady-state for	359-382
CFD algorithms, S. Roy and A.J. Baker	339-382
Singularity methods	
Solution of flow problems using unstructured grids on distributed memory platforms,	00 100
D.G. Koubogiannis, L.C. Poussoulidis, D.V. Rovas and K.C. Giannakoglou	89–100
Solution of differential equations	
The discrete Korn's type inequality in subspaces and iterative methods for thin elastic	22 25
structures, E.E. Ovtchinnikov and L.S. Xanthis	23- 37
Long series analysis of laminar flow through parallel and uniformly porous walls of different permeability, N.M. Bujurke, V.S. Madalli and B.G. Mulimani	39- 56
Solution of integral equations (singularity method)	272 200
Core spreading vortex methods in two-dimensional viscous flows, T. Kida and T. Nakajima	273–298
Solutions of ordinary and partial differential equations	
The method of arbitrary lines in optimal shape design: problems with an elliptic state	
equation, J. Chleboun and L.S. Xanthis	1- 22
The discrete Korn's type inequality in subspaces and iterative methods for thin elastic	22 25
structures, E.E. Ovtchinnikov and L.S. Xanthis	23- 37
Long series analysis of laminar flow through parallel and uniformly porous walls of	20 56
different permeability, N.M. Bujurke, V.S. Madalli and B.G. Mulimani	39- 56
Efficient iterative solution of constrained finite element analyses, P. Saint-Georges, Y. Notay and G. Warzée	101-114
Computational models for weakly dispersive nonlinear water waves, H.P. Langtangen and	101-114
G. Pedersen	337-358
Spling approximation	
Spline approximation  A monotone time relevation matrix procedure for improved convergence to steady state for	
A monotone time relaxation matrix procedure for improved convergence to steady-state for CFD algorithms, S. Roy and A.J. Baker	359-382
Stochastic processes	
Fuzzy number theory to obtain conservative results with respect to probability, P. Ferrari	
and M. Savoia	205-222
Structural mechanics	
The method of arbitrary lines in optimal shape design: problems with an elliptic state	
equation I Chleboun and I S Xanthis	1- 22

The discrete Korn's type inequality in subspaces and iterative methods for thin elastic structures, E.E. Ovtchinnikov and L.S. Xanthis	23- 37
Numerical shakedown analysis of damaged structures, A. Hachemi and D. Weichert	57- 70
Error on the constitutive relation in the nonlinear formulation of elastic beams: the plane	200 214
case, B. Nedjar and M. Reynier	299-314
A geometrical nonlinear eccentric 3D-beam element with arbitrary cross-sections,	202 100
F. Gruttmann, R. Sauer and W. Wagner	383-400
Systems of linear and nonlinear simultaneous equations	
The discrete Korn's type inequality in subspaces and iterative methods for thin elastic	
structures, E.E. Ovtchinnikov and L.S. Xanthis	23- 37
Finite element analysis of flexible multibody systems with fuzzy parameters, T.M. Wasfy	
and A.K. Noor	223-243
Transonic flow	
Assessment of various low-Reynolds number turbulence models in shock-boundary layer interaction, G. Barakos and D. Drikakis	155-174
Turbulence	
Assessment of various low-Reynolds number turbulence models in shock-boundary layer	
interaction, G. Barakos and D. Drikakis	155-174
Viceaus form	
Viscous flow	
Long series analysis of laminar flow through parallel and uniformly porous walls of	20 56
different permeability, N.M. Bujurke, V.S. Madalli and B.G. Mulimani	39- 56
Assessment of various low-Reynolds number turbulence models in shock-boundary layer	155 174
interaction, G. Barakos and D. Drikakis	155-174
Core spreading vortex methods in two-dimensional viscous flows, T. Kida and T. Nakajima	273–298
Wave motion	
Computational models for weakly dispersive nonlinear water waves, H.P. Langtangen and	
G. Pedersen	337-358

